

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/18327**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :C02F 3/22, 11/02

US CL :210/609, 613, 614, 620, 629, 149, 194, 220

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 210/609, 612, 613, 614, 620, 629, 149, 194, 195.1, 202, 220, 258, 259

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,690,764 A10 (OKUMURA et al) 01 September 1987, see figure 10.	1, 3-11
Y	US 4,207,180 A4 (CHANG) 10 June 1980, see figure 1.	1, 3-11
Y	US 4,440,645 A8 (KITE) 03 April 1984, see figure 1.	1, 3-11
Y	US 4,166,790 A3 (ZLOKARNIK et al) 04 September 1979, see figure 2.	1, 3-11
Y	US 5,733,456 A (OKEY et al) 31 March 1998, see column 3, line 64 to column 4, line 11.	1, 3-11
Y	US 5,304,308 A (TSUMURA et al) 19 April 1994, see column 4, lines 27-31.	1, 3-11

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

18 AUGUST 2000

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06 SEP 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

CHRISTOPHER UPTON

Telephone No. (703) 308-0651

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,277,342 A7 (HAYES et al) 07 July 1981, see column 4, lines 49-54.	1, 3-11
Y	US 4,587,019 A9 (WOLINSKI) 06 May 1986, see the abstract.	9
X, P, &	US 5,948,261 A (PRESSLEY) 07 September 1999, see column 9, lines 20-32.	1-17